

WHAT IS CLAIMED IS:

1. (amended) A display controlling apparatus, comprising:
 - data output units being connectable to respective display apparatuses;
 - a video memory for storing therein image data utilized for displaying of said display apparatuses; and
 - a controlling unit for outputting image data stored in said video memory to each of said display apparatuses at a resolution depending on the number of said display apparatuses, via said data output units, and outputting image data stored in said video memory at an original resolution of said image data when said data output units are connected to one of said display apparatuses.
2. (amended) A display controlling apparatus, comprising:
 - data output units being connectable to respective display apparatuses;
 - a video memory for storing therein image data utilized for displaying of said display apparatuses; and
 - a controlling unit for outputting image data stored in said video memory to each of said display apparatuses via said data output units, and outputting image data combined one or more of image layers into.
3. (amended) A display controlling apparatus, comprising:
 - data output units being connectable to respective display apparatuses; and
 - a controlling unit for allowing image data to be sequentially received by said display apparatuses via said data output units in order of said data output units connected to said display apparatuses in a period of a synchronization signal.
4. (amended) A display controlling apparatus as set forth in claim 5, in which
 - the number of said display apparatuses connected to said data output units is equal to two, and in which
 - said controlling unit is operative to allow said image data to be received by one of said display apparatuses on each of leading edges of said synchronization signal, and to allow said image data to be received by the other of said display apparatuses on each of trailing edges of said synchronization signal.
5. (amended) A display controlling apparatus, comprising:
 - data output units being connectable to respective display apparatuses each having

an operating unit for issuing an instruction to said controlling unit to select one or more image data;

a video memory for storing therein image data utilized for displaying of said display apparatuses; and

a controlling unit for outputting image data stored in said video memory to each of said display apparatuses via said data output units, said controlling unit is operative to judge whether or not one or more image data selected by one of said display apparatuses are the same as one or more image data which are being outputted to the other of said display apparatuses, and to allow one of said display apparatuses to display information on whether or not one or more image data selected by one of said display apparatuses are the same as one or more image data which are being outputted to the other of said display apparatuses in response to said instruction issued by said operating unit of one of said display apparatuses.

6. (amended) A display controlling apparatus, comprising:

data output units being connectable to respective display apparatuses each having an operating unit for issuing an instruction to said controlling unit to select one or more image data;

a video memory for storing therein image data utilized for displaying of said display apparatuses; and

a controlling unit for outputting image data stored in said video memory to each of said display apparatuses via said data output units, said controlling unit is operative to judge whether or not one or more image data selected by one of said display apparatuses are the same as one or more image data which are being utilized through said operating unit to the other of said display apparatuses, and to allow one of said display apparatuses to display information on whether or not one or more image data selected by one of said display apparatuses are the same as one or more image data which are being outputted to the other of said display apparatuses in response to said instruction issued by said operating unit of one of said display apparatuses.

7. (amended) A display controlling apparatus as set forth in claim 5, in which

said information displayed by one of said display apparatuses is represented by a pointer.

8. (amended) A display controlling apparatus as set forth in claim 5, in which

said controlling unit is operative to allow one or more image data to be utilized through said operating unit of one of said display apparatuses with the restriction on the use

of said image data after allowing one of said display apparatuses to display said information that one or more image data selected by one of said display apparatuses are the same as one or more image data which are being outputted to the other of said display apparatuses.

9. (amended) A display controlling apparatus, comprising:

data output units being connectable to respective display apparatuses each having an operating unit for issuing an instruction to said controlling unit to select one or more image data;

a video memory for storing therein image data utilized for displaying of said display apparatuses; and

a controlling unit for outputting image data stored in said video memory to each of said display apparatuses via said data output units, wherein

said display apparatuses each has an operating unit for issuing an instruction to said controlling unit to output one or more image data, said display apparatuses being assigned to respective priority sequences,

said controlling unit is operative to judge whether or not one or more image data which are being outputted to one of said display apparatuses are the same as one or more image data selected by the other of said display apparatuses before judging whether or not one of said display apparatuses exceeds in priority sequence the other of said display apparatuses when the judgment is made that one or more image data selected by the other of said display apparatuses are the same as one or more image data which are being outputted to one of said display apparatuses, and

said controlling unit is operative to allow the other of said display apparatuses to display one or more image data the same as one or more image data which are being outputted to one of said display apparatuses with the restriction on the utilization of said image data when the judgment is made that one of said display apparatuses exceeds in priority sequence the other of said display apparatuses.

10. (amended) A display controlling apparatus as set forth in claim 11, in which

said controlling unit is operative to allow said priority sequence assigned to each of said display apparatuses to be changed by each of said operating unit of said display apparatuses.

11. (amended) A display controlling apparatus for allowing display apparatuses to display respective images represented by image data, comprising:

a multiplexing unit for multiplexing said image data indicative of said images to be

displayed by the display apparatuses;

a buffer memory having stored therein said multiplexed image data; and

demultiplexing unit for demultiplexing said multiplexed image data stored in said buffer memory to output said demultiplexed image data to each of said display apparatuses.

12. (amended) A display controlling apparatus for allowing display apparatuses to display respective images represented by image data, comprising:

a multiplexing unit for multiplexing said image data indicative of said images to be displayed by the display apparatuses;

a buffer memory having stored therein said multiplexed image data;

demultiplexing unit for demultiplexing said multiplexed image data stored in said buffer memory to output said demultiplexed image data to each of said display apparatuses; and

a synchronization signal producing unit for producing a synchronization signal to be constituted by a pulse string having a predetermined period, wherein

said demultiplexing unit is operative to demultiplex said multiplexed image data stored in said buffer memory by allowing said multiplexed image data to be selectively received by each of said display apparatuses in said predetermined period of said synchronization signal.

13. (amended) A display controlling apparatus for allowing display apparatuses to display respective images represented by image data, comprising:

a multiplexing unit for multiplexing said image data indicative of said images to be displayed by the display apparatuses;

a buffer memory having stored therein said multiplexed image data;

demultiplexing unit for demultiplexing said multiplexed image data stored in said buffer memory to output said demultiplexed image data to each of said display apparatuses; and

a synchronization signal producing unit for producing a synchronization signal to be constituted by a pulse string having a predetermined period, wherein

said demultiplexing unit is operative to demultiplex said multiplexed image data stored in said buffer memory by allowing said multiplexed image data to be received by one of said two display apparatuses on each of leading edges of said synchronization signal, and to be received by the other of said two display apparatuses on each of trailing edges of said synchronization signal.

14. (amended) A display controlling apparatus for allowing display apparatuses to display respective images represented by image data, comprising:

a multiplexing unit for multiplexing said image data indicative of said images to be displayed by the display apparatuses;

a buffer memory having stored therein said multiplexed image data; and

demultiplexing unit for demultiplexing said multiplexed image data stored in said buffer memory to output said demultiplexed image data to each of said display apparatuses, wherein

said multiplexing unit is operative to adjust said resolution of each of said images to be respectively displayed by the display apparatuses on the basis of the number of said display apparatuses connected to said data output units to multiplex image data indicative of said images to be respectively displayed by the display apparatuses at said adjusted resolution.

15. (amended) A display controlling apparatus as set forth in claim 14, in which

said multiplexing unit is operative to adjust said resolution of each of said images to be respectively displayed by the display apparatuses in inverse proportional relationship with the number of said display apparatuses connected to said data output units.